

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2	"6519291".pn,	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/28 13:37
L2	2	"6519291".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/28 13:38
L3	2	"6628722".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/28 13:38
L5	2	"6807241".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/28 14:48
L6	63	harmonic same (multi near2 tone)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/28 14:48
L7	0	multi with part with prefix same (rotati\$2 with constellation) and multitone	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/28 14:48
L8	49890	dwell	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/28 14:48
L9	87	dwell with antennas	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/28 14:48
L10	2	(square\$1 adj wave) same (multicarrier)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/28 14:48

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L11	0	(square\$1 with wave) same (((multi adj tone) or multitone or multi-tone) and prefix)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/28 14:48
L12	23	harmonic same tone and ofdm	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/28 14:48
L13	883	(square\$1 adj wave) and (fft)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/28 14:48
L14	17	((prefix) and (rotati\$3 with constellation) and multi with tone)". cim"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/28 14:48
L15	5	squared adj wave adj signal and harmonic	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/28 14:49
L16	1	(multi with tone) and (passband with periodic with signal) and parallel	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/28 14:49
L17	539	square adj wave same (even with harmonic)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/28 14:49
L18	25	(generat\$3 near harmonic) and ofdm	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/28 14:49

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L19	0	(square\$1 adj wave) same (fft same multicarrier)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/28 14:49
L20	2411	square\$1 adj wave adj signal and harmonics	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/28 14:49
L21	26	OFDM with rotat\$3 with constellation	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/28 14:49
L22	52	(square\$1 with wave) same ((multi adj tone) or multitone or multi-tone)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/28 14:49
L23	2	"6870893".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/28 14:49
L24	5	squared adj wave adj signal and harmonics	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/28 14:49
L25	2	"6580761".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/28 14:49
L26	2	"6519291".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/28 14:49
L27	2	"4185302".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/28 14:49

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L28	90	(square\$1 adj wave) same (FFT)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/28 14:49
L29	90	(square\$1 adj wave) same (fft)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/28 14:49
L30	30	(square\$1 adj wave) with ((multi adj tone) or multitone or multi-tone)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/28 14:49
L31	2	squared adj wave and fft	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/28 14:49
L32	31	(square\$1 adj wave) with (fft)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/28 14:49
L33	6	(square\$1 adj wave) same (multicarrier or dsl)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/28 14:49
L34	44	squared adj wave same (harmonic)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/28 14:49
L35	42	(square\$1 adj wave) and (fft same multicarrier)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/28 14:49

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L36	1	(multi with tone) same (square near wave) and (periodic with signal) and parallel	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/28 14:49
L37	1	((multi with tone) and (square near wave) and (periodic with signal) and parallel).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/28 15:00
L38	1	(multi with part with prefix) and (rotati\$3 with constellation) and multi with tone	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/28 14:49
L39	24	(square\$1 with wave) and (((multi adj tone) or multitone or multi-tone) and prefix)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/28 14:49
L40	17	harmonic same multitone and fft	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/28 14:49
L41	44	squared adj wave same (harmonic)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/28 14:49
L42	0	squared adj wave same (advantadge)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/28 14:49
L43	2	"6654431".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/28 14:49

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L44	32	squared adj wave and (even with harmonic)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/28 14:49
L45	905	((multi adj tone) or OFDM or DMT or ADSL) with (antennas or antennae)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/28 14:49
L46	0	(square\$1 with wave) same (((multi adj tone) or multitone or multi-tone) with FFT)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/28 14:49
L47	6	supplemental adj cyclic adj prefix	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/28 14:49
L48	0	(multi with part with prefix) and (rotati\$2 with constellation) and multitone	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/28 14:49
L49	2	square\$1 adj wave adj signal and harminics	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/28 14:49
L50	26	squared adj wave same (advantage)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/28 14:49
L51	1	((prefix) and (rotati\$3 with constellation) and multi with tone). clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/28 14:49

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L52	1475	square\$1 adj wave and (even with harmonic)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/28 14:49
L53	656	375/299	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/28 14:49
L54	310	((multi adj tone) or multitone or multi-tone) same FFT)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/28 14:49
L55	1	rotat\$3 with constellation with prefix	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/28 14:49
L56	8	rotat\$3 with prefix with ofdm	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/28 14:49
L57	1	((multi with tone) and (passband with periodic with signal) and parallel).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/28 14:49
L58	134	375/347 and ((multi adj tone) or OFDM or DMT or ADSL) with (antennas or antennae)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/28 14:49
L59	2585	375/347	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/28 14:49
L60	6	"6891792"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/28 14:49

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L61	47	"cycle prefix" and (multitone or ofdm)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/28 14:49
L62	0	455/463 and ((multi adj tone) or OFDM or DMT or ADSL) with (antennas or antennae)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/28 14:49
L63	65	(multi with tone) and (square near wave) and (periodic with signal) and parallel	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/28 14:49
L64	2	(multi adj part) near3 prefix	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/28 14:49
L65	0	squared adj wave adj signal and even with harmonic	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/28 14:49
L66	1	((multi with part with prefix) and (rotati\$3 with constellation) and multi with tone)".clm"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/28 14:59
L67	1	(multi with part with prefix) and (rotati\$3 with constellation) and multi adj tone	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/28 14:49
L68	10	harmonic same tone same ofdm	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/28 14:49
L69	0	375/308 and ((multi adj tone) or OFDM or DMT or ADSL) with (antennas or antennae)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/28 14:49



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L70	76781	(square\$1 adj wave) sameh ((multi adj tone) or multitone or multi-tone)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/28 14:49
L71	52	(square\$1 adj wave) same ((multi adj tone) or multitone or multi-tone multicarrier)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/28 14:49
L72	264	square adj wave with (even with harmonic)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/28 14:49
L73	15	harmonic with multitone	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/28 14:49
L74	902	(square\$1 adj wave) and (fft or multicarrier)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/28 14:49
L75	103	((multi adj tone) or multitone or multi-tone) with FFT)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/28 14:49
L76	0	OFDM with rotat\$3 with constellation with prefix	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/28 14:49
L77	1470	square adj wave and (even with harmonic)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/28 14:49

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L78	0	squared adj wave adj signal and harminics	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/28 14:49
L79	905	((multi adj tone) or OFDM or DMT or ADSL) with (antennas or antennae)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/28 14:49
L80	134	L79 and L59	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/28 14:49
L81	7	squared adj wave with (harmonic)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/28 14:49
L82	17	((prefix) and (rotati\$3 with constellation) and multi with tone)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/28 14:49
L83	92	(square\$1 adj wave) same (fft or multicarrier)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/28 14:49
L84	2	"6807241".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/28 14:49
L85	77	(wireless adj lan) and harmonic and ofdm	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/28 14:49
L86	0	(square\$1 with wave) same (((multi adj tone) or multitone or multi-tone) and FFT)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/28 14:49

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L87	0	squared adj wave same (harmonic with odd)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/28 14:49
L88	0	squared adj wave same (harmonic with even)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/28 14:49
L89	2	squared adj wave and (fft or multicarrier)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/28 14:49
L90	31	(square\$1 adj wave) with(fft)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/28 14:49
L91	0	(square\$1 adj wave) with (multicarrier)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/28 14:49
L92	12	square adj wave with (even with harmonic with zero)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/28 14:49
L93	15	harmonic with (multitone)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/28 14:49
L94	0	(square\$1 with wave) same (((multi adj tone) or multitone or multi-tone) same FFT)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/28 14:49

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L95	22	squared adj wave adj signal	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/28 14:49
L96	57	harmonic and multitone and fft	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/28 14:49
L97	3	(square\$1 adj wave) with (prefix)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/28 14:49
L98	0	squared adj wave same (even with harmonic)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/28 14:49
L99	458	rotat\$3 with prefix	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/28 14:49
L100	905	((multi adj tone) or OFDM or DMT or ADSL) with (antennas or antennae)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/28 14:49
L101	67	harmonic same (multi near3 tone )	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/28 14:49
L102	5	dwel with antennas and (multitone or ofdm)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/28 14:49
L103	24	375/144 and ((multi adj tone) or OFDM or DMT or ADSL) with (antennas or antennae)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/28 14:49

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L104	1022	dwell and antennas	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/28 14:49
L105	50	455/101 and ((multi adj tone) or OFDM or DMT or ADSL) with (antennas or antennae)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/28 14:49
L106	0	(multi with part with prefix) and (rotati\$3 with constellation) and multitone	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/28 14:49
L107	1906	375/267	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/28 14:49
L108	176	L79 and L107	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/28 14:49
L109	75	L79 and L53	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/28 14:49
L110	22	dwell and antennas and ofdm	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/28 14:49
L111	50	(square\$1 adj wave) same ((multi adj tone) or multitone or multi-tone)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/28 14:49
L112	94	cycle adj prefix	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/28 14:49

## EAST Search History

L113	94	"cycle prefix"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/28 14:49
L114	1	((multi with part with prefix) and (rotati\$3 with constellation) and multi with tone).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/28 15:01
L115	14	((multi with tone) and (square near wave)).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/28 15:00
L116	10	((multi with part with prefix) and (multi with tone)).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/28 15:03
L117	1	((multi with part with prefix) and (multi with tone) AND CONTINUITY).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/28 15:07
L118	2	"6785328".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/28 15:07

Application  
Number

  

IDS Flag Clearance for Application 09943811

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Information**

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## Continuity Information for 09/943811

### Parent Data

09943811

Claims Priority from Provisional Application 60291071

### Child Data

No Child Data

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# Foreign Information for 09/943811

## No Foreign Data

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# Inventor Information for 09/943811

Inventor Name	City	State/Country
LAROIA, RAJIV	BASKING RIDGE	NEW JERSEY

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## Correspondence Address for 09/943811

Customer Number	Contact Information	Address
26479	Telephone: (732)542-9070 Fax: (732)542-9071 E-Mail: No E-Mail Address	STRAUB & POKOTYLO 620 TINTON AVENUE BLDG. B, 2ND FLOOR TINTON FALLS NJ 07724

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**HARIKUMAR, Gopal / MARCHOK, Daniel / RUDOFSKI, Kenneth J., PATENT COOPERATION TREATY APPLICATION**, Oct 1999

...time-domain equalization in a discrete **multi-tone** (DMT) receiver. Conventional single carrier...665-675, July 1985; Chow, "A Discrete **Multi-Tone** Transceiver System for HDSL applications...Fig. 1 is a block diagram of a discrete **multi-tone** communication system. Fig. 2 is a plot...

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- ☐ 2. **System design and implementation of multiple-symbol encapsulated OFDM**  
 Xianbin Wang; Yiyuan Wu; Chouinard, J.-Y.;  
[Vehicular Technology Conference, 2005. VTC 2005-Spring. 2005 IEEE 61st](#)  
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- ☐ 3. **MSE-OFDM: a new OFDM transmission technique with improved system performa**  
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[Acoustics, Speech, and Signal Processing, 2005. Proceedings. \(ICASSP '05\). IEEE](#)  
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- ☐ 4. **On the comparison between conventional OFDM and MSE-OFDM systems**  
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